



**ANODYNE  
ELECTRONICS  
MANUFACTURING CORP.**

## **SPECIAL NOTICE**

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Please note the transition to convert product manuals and supporting documentation is an ongoing process and is being addressed on an 'as needed' basis.

All references to NAT product part numbers are equivalent to AEM product part numbers.

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\*CD Revision # is on left side of the disc. \*\*Hard Copy is 3 ring binder with revision # on page 1 of manual.  
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SERVICE MANUAL	PRODUCT DESCRIPTION	REVISION / ISSUE	DATE	*CD REVISION	AMEND/SUPPL/ BULLETIN NO.	DATE	**LAST HARD COPY REV. / SUBJECT / COMMENT
<b>SM01</b>	<b>AA9x/AMS4x Series Audio Controllers</b>			<b>N/A</b>			Last hard copy rev. 1.60 (1-Apr-91). Manual is archived; for reference only. Replaced with SM19, 56, 59
	Service Bulletins						
<b>SM02</b>	<b>AA20/22 PA110/220 Loudhailer/PA System Manual</b>			<b>N/A</b>			Last hard copy rev. 2.20 (1-Jan-92). Manual is archived; for reference only. Replaced with SM33, 35
	Service Bulletins						
<b>SM03</b>	<b>AA30 Series Audio Accessories</b>			<b>N/A</b>			Last hard copy rev. 2.00 (1-Jan-92). Manual is archived; for reference only. Replaced with SM's for each AA3x product
	Service Bulletins						
<b>SM04</b>	<b>TAC/COM™ Series UHF Transceiver (NT403 - NT806)</b>			<b>1.02</b>			Last hard copy rev. 2.00 (8-Apr-94)
Installation & Operation		4.00	27-Nov-03				
Amendments							
Maintenance		2.00	08-Apr-94				
Amendments							Current manual will not be upgraded to 4.0; product no longer in production
Bulletins							
<b>SM05</b>	<b>TAC/COM™ Series VHF Transceiver (NT030 - NT150)</b>			<b>1.02</b>			Last hard copy rev. 2.00 (18-Feb-94)
Installation & Operation		4.00	26-Nov-03				
Amendments							
Maintenance		2.00	18-Feb-94				
Amendments							Current manual will not be upgraded to 4.0; product no longer in production
Bulletins	Service Bulletin	NT136-PAS			603-0001	24-Sep-90	AM100 Scan Rate Modification
	Information Bulletin	NT136-PAS			609-0001	30-Oct-91	Improvement to NT136-PAS
	Service Bulletin	NT136-PAS			603-0002	03-May-94	NT136-PAS Quasi-Sync Mod
	Service Bulletin	NT136-PAS			603-0003	10-May-94	NT136-PAS ACG Improvements
<b>SM06</b>	<b>TAC/COM™ Series Control Head</b>			<b>1.03</b>			Last hard copy rev. 3.00 (14-May-96)
Installation & Operation		4.10	04-Jan-06				
Amendments					1	22-Oct-07	Changes to Section 2
Supplements		1.00			CH400-17(D, D1)	03-Apr-07	Astro/XTL-500 Interface
		1.00			CH400-81	20-Apr-04	Flexcomm Interface (F)
		1.00			CH400-4J, 61, 612	27-Nov-07	A' Interface (AM Comm Series)
		1.00			CH400-3B, -4E	27-Nov-07	'C' Interface (Flitefone 40)
		1.00			CH400-4C, 4P, 81, 811	27-Nov-07	'F', 'F1', I/F (Wulfsberg Flexcomm)
		1.00			CH400-14	27-Nov-07	'H', 'J' Interface (NTX Series)
		1.00			CH400-10, 101, 4A, 4B	27-Nov-07	'K', 'M', I/F (Midland Syn-tech)
		1.00			CH400-15	27-Nov-07	'L' Interface (Motorola Spectra™)

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		1.00			CH400-4A, 4H, 4I, 4M, 9, 91, NT150	27-Nov-07	N' 'T' 'V' I/F (NT Series)
		1.00			CH400-4B, 4F, 4G, 4M, 6, 61, 611, 7, 7B, 7C, 7C1, 7C2	27-Nov-07	'P', 'Q', 'Q1', 'R', 'U', 'U1' Interfaces (RT7200/9600)
		1.00			CH400-12	27-Nov-07	Y' Interface (Serial Card)
		1.00			CH410-3	27-Nov-07	Z' Interface (Tac/Com Slave)
		1.00			TH450C-002	05-May-08	Custom Tac/Com Controller
		1.00			Th250C-006	14-Jan-08	Custom Tac/Com Controller
Maintenance		4.10	08-Feb-06				
Amendments							
Supplements		1.00			CH400-17(D, D1)	03-Apr-07	Astro/XTL-500 Interface
		1.00			CH400-4J, 61, 612	27-Nov-07	A' Interface (AM Comm Series)
		1.00			CH400-3B, -4E	27-Nov-07	C' Interface (Flitefone 40)
		1.00			CH400-4C, 4P, 81, 811	27-Nov-07	F', 'F1', I/F (Wulfsberg Flexcomm)
		1.00			CH400-14	27-Nov-07	H', 'J' Interface (NTX Series)
		1.00			CH400-10, 101, 4A, 4B	27-Nov-07	K', 'M', I/F (Midland Syn-tech)
		1.00			CH400-15	27-Nov-07	L' Interface (Motorola Spectra™)
		1.00			CH400-4A, 4H, 4I, 4M, 9, 91, NT150	27-Nov-07	N' 'T' 'V' I/F (NT Series)
		1.00			CH400-4B, 4F, 4G, 4M, 6, 61, 611, 7, 7B, 7C, 7C1, 7C2	27-Nov-07	'P', 'Q', 'Q1', 'R', 'U', 'U1' Interfaces (RT7200/9600)
		1.00			CH400-12	27-Nov-07	Y' Interface (Serial Card)
		1.00			CH410-3	27-Nov-07	Z' Interface (Tac/Com Slave)
Bulletins	Service Bulletin	CH400101			603-0001	14-Jul-94	TAC/COM XRT I/F
	Information Bulletin	TH250-K			603-0002	26-Jun-95	Syn-Tech XRT Interface
	Information Bulletin	TH250-K			603-0003	08-Jun-95	Syn-Tech XRT Interface
	Service Bulletin	CH400-14			603-0001	31-Mar-98	Intermittent Operation (MOD 15)
	Service Bulletin	CH400-14			603-0002	06-Nov-02	Latching Problems with connector locking hardware (MOD 1, 20)
	Service Bulletin	CH400-17			603-0001	20-Feb-03	Astro Interface Subassembly
	Service Bulletin	CH400-61			603-0001	14-Jun-01	PTT Delay Circuitry Added
	Service Bulletin	CH400-81			603-0001	10-Nov-00	Radio OK Out Line
	Service Bulletin	TAC/COM "K" I/F			603-0002	26-Jun-95	Syn-Tech XTR Interface
	Service Bulletin	TH250-7 J2J1			603-0001	24-Sep-97	Conversion to TH250-7JJ1
	Service Bulletin	TH450A			603-0001	24-Oct-01	Faceplate Text Change
	Information Bulletin	THxxx			609-0002	17-Dec-01	TAC/COM Control Heads
	Service Bulletin	CH400-612			603-0001	09-May-05	CH400-612 activates VHF-20 PTT circuit during receive mode (MOD 22)
	Service Bulletin	CH400-17			603-0002	12-Apr-07	Software upgrade to support W4/W5
	Service Bulletin	CH400-17			603-0001	20-Feb-03	Correcting "--NO RADIO--" Fault (MOD 21)
	Service Bulletin	CH402-20			603-0001	11-Jan-07	Corrected remote switch operation (MOD 24)
	Service Bulletin	CH402-20			603-0002	06-Mar-07	Front panel switch interpretation (MOD 25)

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	Service Bulletin	TH450C-002			603-0001	16-May-07	CPU Switch clearance (MOD 26)
	Service Bulletin	TH250C-006x			603-0001	18-Jul-07	Faceplate does not sit flush (MOD 27)
	Service Bulletin	TH250-xJ3, TH250-xU1, TH250-17D1B, TH350-16JDD1			603-0001	29-Feb-08	Faceplate bubbling and not sitting flush (MOD 28)
	Service Bulletin	THxxx/CH402-2F			603-0002	22-Apr-09	Replace obsolete NOVRAM. (MOD 29)
	Service Bulletin	TH250-17xx			603-0003	07-Oct-09	Changed display filter. Changed dimming circuit. (MOD 30)
	Service Bulletin	THxxx/CH402-1C, 1D, and 1E			603-0004	20-Nov-09	Replace obsolete beryllium strip (Mod 31)
	Service Bulletin	UEC-200			603-0001	07-May-10	Replace obsolete beryllium strip (Mod 7)
<b>SM08 AA80 InterVOX™ Intercom System</b>				<b>1.02</b>			Last hard copy rev. 1.10 (1-Apr-91)
Installation & Operation		4.00	26-Nov-03				Rev. 4.0 reflects electronic conversion of Install & Ops section.
Amendments					1	12-Mar-07	Changes to Section 6
Maintenance	<i>Pending</i>						Mtce. section not completed so no change in original Hard Copy rev.
Amendments							
Bulletins	Service Bulletin	AA80-001/020			AA80-003	06-May-88	Noises in Intercom System
	Installation Bulletin	AA80-002			AA80-002	19-Sep-89	Internal fuse removed (MOD 4)
	Service Bulletin	AA80-XXX			AA80-XXX	03-Oct-89	n/a
	Service Bulletin	AA80-XXX			AA80-XXX	03-Oct-89	n/a
	Service Bulletin	AA80-062			603-0004	18-Dec-97	ICS Tie Line Jumper
<b>SM09 AA82/AA83 InterMUSIC™ Stereo Intercom <i>consists of:</i></b>				<b>1.04</b>			Last hard copy rev. 2.00 (18-Apr-94)
<b>SM09-1 AA82 InterMUSIC™</b>				<b>"</b>			Last hard copy rev. 2.00 (18-Apr-94)
Installation & Operation		Issue 4.11	29-Aug-08				
Amendments							
Supplements		1.00			AA82-060N810-0	12-Sep-08	Stereo Intercom System
Maintenance		Issue 4.11	29-Aug-08				
Amendments							
Supplements		1.00			AA82-060N825-0	12-Sep-08	Stereo Intercom System
Bulletins	Service Bulletin	AA82-001			603-0001	10-Jun-94	AA82-001 InterMUSIC (MOD 2)
	Service Bulletin	AA82-001			603-0002	10-Jun-94	AA82-001 InterMusic (MOD 3)
	Service Bulletin	AA82-060			603-0001	19-Feb-01	AA82-060 Music Volume Control (MOD 4)
<b>SM09-2 AA83-001 InterMUSIC™</b>				<b>"</b>			Last hard copy rev. 2.00 (18-Apr-94)
Installation & Operation		4.10	29-Oct-04				
Amendments							
Maintenance		4.10	20-Oct-04				
Amendments					1	12-May-05	Changes to Section 6
Supplements							
Bulletins	Service Bulletin	AA83-001 (S/N 1151-1230)			83-930517	17-May-93	Component Failure in AA83-001 InterMUSIC Units
	Service Bulletin	AA83-001 (Prior to S/N 1192)			83-930304	04-Mar-93	Shorting of NORMAL/ISO/SPLIT Switch Body to PCB Trace
	Service Bulletin	AA83-001			603-0003	15-Apr-05	VOX Circuit Upgrade (MOD 5)
	Service Bulletin	AA83-001			603-0004	03-May-05	Max ICS VOX does not prevent noise triggering (MOD 6)
	Information Bulletin	AA83-001 (S/N 2939 and later)			609-0	15-Sep-05	AA83-001 Performance Upgrade
<b>SM09-2A AA83-001A InterMUSIC™ Stereo Intercom S/N 2939 and la</b>				<b>"</b>			Last hard copy rev. n/a
Installation & Operation		4.00	08-Feb-06				
Amendments							
Maintenance		4.00	08-Feb-06				

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Amendments							
Bulletins	Service Bulletin	AA83-001 (S/N 2939 and later)			603-0001	15-Dec-05	Add Four Resistors (MOD 2)
<b>SM09-3 AA83-100 InterMUSIC™ Stereo Intercom</b>				"			Last hard copy rev. n/a
Installation & Operation		4.00	04-Mar-05				
Amendments							
Maintenance		4.00	16-Aug-05				
Amendments					1	20-Dec-05	Changes to Section 6
					2	11-May-06	Changes to Sections 5 and 6
					3	31-Aug-06	Changes to Section 5
Bulletins	Service Bulletin	AA83-100			603-0001	15-Dec-05	Add Four Resistors (MOD 2)
<b>SM10 AA31 Series ICS Mode Controller</b>				1.02			Last hard copy rev. 2.00 (9-Sep-93)
Installation & Operation		4.10	04-Feb-05				
Amendments							
Supplements		1.00			AA31-109\810-0	06-Dec-07	ICS Mode Controller
Maintenance		4.10	02-Feb-05				
Amendments					1	09-Mar-07	Changes to Section 6
Supplements		1.00			AA31-109	06-Dec-07	ICS Mode Controller
Service Bulletin		AA31-303			603-0002	26-Feb-07	Faceplate Bubbling (MOD A)
Service Bulletin		AA31-106			603-0003	02-Jul-08	Too much light around knob (MOD A)
<b>SM15 Remote Switches and Indicators <i>consists of:</i></b>				1.02			Last hard copy rev. 2.00 (28-Mar-00)
<b>SM15-2 LD12 Lamp Dimmer</b>				"			Last hard copy rev. 1.10 (23-Aug-00)
Installation & Operation		4.00	21-Nov-03				
Amendments							
Maintenance		4.00	03-May-04				
Amendments							
Bulletins							
<b>SM15-7 RS16 Series Remote Switch</b>				"			Last hard copy rev. 1.10 (29-Feb-00)
Installation & Operation		4.00	24-Nov-03				
Amendments							
Maintenance		4.00	04-May-04				
Amendments					1	29-Aug-05	Changes to Section 6
Bulletins							
<b>SM16 CC250/CC450 Communication Controllers</b>				1.01			Last hard copy rev. 1.10 (25-Mar-94)
Installation & Operation		Issue 1.11	11-Feb-08				
Amendments							
Maintenance		Issue 1.11	28-May-08				
Amendments							
Bulletins							
<b>SM19 AMS42/AMS44 Series Dual Channel Audio Controller</b>				1.08			Last hard copy rev. 1.00 (7-Apr-99)
Installation & Operation		4.00	21-Nov-03				
Amendments					1	30-Jul-04	Changes to Section 2
					2	15-Feb-05	Changes to Title Section and Section 2.
					3	27-May-08	Changes to Section 2
Maintenance		4.10	30-Jul-04				
Amendments					1	23-Aug-04	Changes to Sections 5 and 6

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					2	10-Jan-05	Changes to Title Section and Section 5
					3	02-May-06	Changes to Section 5
					4	04-Jun-06	Changes to Sections 5 and 6
					5	20-Dec-06	Changes to Section 6
					6	22-Mar-07	Changes to Sections 5 and 6
					7	05-May-08	Changes to Section 6
					8	30-Jun-09	Changes to Section 5
Bulletins	Service Bulletin	Obsolete (see #002)			603-0001	06-Feb-95	
	Service Bulletin	AMS44			603-0002	09-Mar-95	VOX/ICS Tie Line Subassembly
	Service Bulletin	AMS42/44			603-0003	26-Sep-03	Replacement of Transformer Insulators (MOD 12)
	Service Bulletin	AA94-407			603-0004	26-Mar-04	Replacement of Transformer Insulators (MOD 12)
	Service Bulletin	AMS42			603-0005	26-Jul-04	DIR AUD #1 Level Increase (MOD 13)
	Service Bulletin	AMS44			603-0006	17-Aug-04	DIR AUD #1 Level Increase (MOD 13)
	Service Bulletin	AMS42/44, AA92-xxx			603-0007	14-Feb-07	ICS Noise (MOD 14)
	Service Bulletin	AMS42/44, AA92-xxx			603-0008	25-Jan-07	ICS Bleedthrough (MOD 15)
	Information Bulletin	AMS42, AMS44			609-0001	18-Nov-08	Left and Right User MIC Bias Circuits Incompatible with PAX
<b>SM23 AA23 Speaker Amplifier</b>				<b>1.02</b>			Last hard copy rev. 2.00 (20-Dec-00)
Installation & Operation		4.00	21-Nov-03				
Amendments					1	29-Oct-04	Changes to Section 2
Maintenance		4.00	27-Jul-04				
Amendments					1	29-Oct-04	Changes to Sections 5 and 6
					2	03-Nov-05	Changes to Section 6
					3	21-Jun-07	Changes to Section 6
Bulletins	Service Bulletin	AA23-xxx			603-0001	20-Feb-01	Shorted Capacitor/Output Oscillation (MOD 2)
	Service Bulletin	AA23-xxx			603-0002	24-May-02	Q101 Emitter to Collector Short (MOD 3)
	Service Bulletin	AA23-001			603-0003	15-May-07	Changed screw length (MOD 4)
<b>SM25 AA35 Series Audio Mixer Panel</b>				<b>1.03</b>			Last hard copy rev. 2.00 (15-Nov-00)
Installation & Operation		Issue 4.01	10-Oct-08				
Amendments							
Supplements		1.02			AA35-000\810-0	25-Aug-10	Audio Mixer Panel
		1.00			AA35-100\810-0	10-Oct-08	Audio Mixer Panel
		1.10			AA35-400\810-0	10-Oct-08	Audio Mixer Panel
		1.00			AA35-202\810-0	15-Jun-09	Audio Mixer Panel
Maintenance		Issue 4.01	10-Oct-08				
Amendments							
Supplements		1.00			AA35-000\825-0	08-Jul-09	Audio Mixer Panel
		1.00			AA35-100\825-0	16-Oct-08	Audio Mixer Panel
		1.02			AA35-400\825-0	03-Oct-08	Audio Mixer Panel
		1.00			AA35-202\825-0	14-May-09	Audio Mixer Panel
Bulletins	Service Bulletin	AA35-2G			603-0001	17-Jul-07	Changed Screw Length (MOD A)
	Service Bulletin	AA35-100			603-0002	13-Aug-08	Interference from Antennas (MOD A)
	Service Bulletin	AA35-xxx			603-0003	25-Feb-09	Oscillations at low volume. (MOD 1)
	Service Bulletin	AA35-xxx			603-0004	05-Oct-09	Oscillations at low volume. (MOD 1)
<b>SM28 NTX VHF-FM Series Remote Mount Transceiver</b>				<b>1.06</b>			Last hard copy rev. 2.10 (25-Oct-02)
Installation & Operation		4.10	01-Jun-04				

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Amendments					1	19-Nov-04	Changes to Section 2
					2	28-Jul-05	Changes to Section 2
					3	14-Jan-08	Changes to Section 2
Maintenance		4.10	01-Jun-04				
Amendments					1	08-Mar-06	Changes to Title Section
Bulletins	Service Bulletin	NTX138-xxx			603-0001	30-Jul-97	Failing Crystal Oscillators
	Service Bulletin	NTX138-2			603-0002	18-Jun-98	TX Power Level/Stability (MOD 1)
	Service Bulletin	NTX138-2			603-0003	18-Jun-98	TX Relay "Chatters" at 174 MHz (MOD 2)
	Service Bulletin	NTX138-2			603-0004	18-Jun-98	Low TX Deviation During Low Temperature Operation (MOD 6)
	Service Bulletin	NTX138-2, NTX138-5			603-0005	26-Jun-98	VCO Gain and Loop Filter (MOD 5); NTX138-5 DCS Change (MOD 7)
	Service Bulletin	NTX138-7			603-0006	18-Jun-98	Test Set Compatibility Requirements (MOD 3)
	Service Bulletin	NTX138-7			603-0007	18-Jun-98	DCS Mods, RNOAF Contract Requirements (MOD 4)
	Service Bulletin	NTX138-5			603-0008	13-Mar-01	DCS Inoperative (MOD 7)
	Service Bulletin	NTX138-2			603-0011	30-Nov-04	RF Power Level ((MOD 8))
	Service Bulletin	NTX138-5			603-0009	03-May-05	U510 Insulator (MOD 9)
	Service Bulletin	NTX138-5			603-0010	06-Jan-06	RX Failure - High Temp (MOD 11)
	Service Bulletin	NTX138-7			603-0012	12-Jun-06	Capacitor dielectric leakage (MOD 12)
	Service Bulletin	NTX138-7			603-0013	08-Mar-07	Transmit Characteristics (NTX138 MOD 14, NTX066 MOD 2)
	Service Bulletin	NTX138-2, NTX138-5			603-0014	19-Mar-07	Rx Failure at Low Temp. (MOD 15)
	Service Bulletin	NTX138			603-0015	04-Feb-08	Firmware update (MOD 17)
	Service Bulletin	NTX138-7			603-0016	26-Jun-08	Obsolete audio bandpass filter
	Service Bulletin	NTX138-4E			603-0017	27-Oct-08	High Temperature Failure, MOD A
	Service Bulletin	NTX138-7			603-0018	04-Feb-09	Firmware update (MOD 19)
	Service Bulletin	NTX138-7			603-0019	12-May-09	Aux Receive Audio level too high. NTX066 (MOD 7 ), NTX138 (MOD 20)
	Information Bulletin	NTX138			609-0001	04-May-09	Intermittent Failure to Receive
	Service Bulletin	NTX066-xxx			603-0020	10-Jun-09	Even high power across the frequency band
<b>SM30 RA Series Remote Attenuators</b>				<b>1.02</b>			Last hard copy rev. 1.10 (06-Mar-98)
Installation & Operation		Issue 4.01	06-Aug-08				
Amendments							
Maintenance		Issue 4.01	06-Aug-08				
Amendments							
Bulletins							
<b>SM32 VR28-013 Voltage Regulators <i>consists of:</i></b>				<b>1.01</b>			
<b>SM32 VR28-013 Voltage Regulator (S/N 1220 and below)</b>				<b>"</b>			Last hard copy rev. 1.00 (31-Jul-01)
Installation & Operation		4.00	10-Nov-03				
Amendments					1	17-Aug-06	Changes to Title Section
Maintenance		4.00	22-Jul-04				
Amendments					1	17-Aug-06	Changes to Title Section
Bulletins	Service Bulletin	VR28-013			603-0001	24-Jan-06	Repair Procedure for a Unit with Defective Part 32-23-080 (MOD 2)
<b>SM32A VR28-013 Voltage Regulator (S/N 1221 and later)</b>				<b>"</b>			
Installation & Operation		4.00	21-Aug-06				
Amendments							
Maintenance		4.00	21-Aug-06				
Amendments					1	27-Jun-07	Changes to Sections 5 and 6

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					2	25-Jan-08	Changes to Section 6
Bulletins	Service Bulletin	VR28-013			603-0001	24-May-07	Power Key Line Reset (MOD 3)
Bulletins	Service Bulletin	VR28-013			603-0002	11-Sep-07	RFI/EMI Emissions (MOD 4)
<b>SM33</b>	<b>AA20AA22 Series PA/Siren Systems <i>consists of:</i></b>			<b>1.06</b>			Last hard copy rev. 1.00 (19-Mar-03)
<b>SM33-2</b>	<b>AA22 PA/Siren Controls</b>			"			Last hard copy rev. 1.00 (31-Oct-02)
Installation & Operation		Issue 4.01	25-Jun-08				
Amendments							
Maintenance		Issue 4.01	25-Jun-08				
Amendments							
Bulletins	Service Bulletin	AA22-110/160/163			Issue 1	03-Dec-90	Band Pass Modification (MOD 1)
	Service Bulletin	AA22			603-0001	19-Mar-97	Switched 28V Current Capability (MOD 4)
	Service Bulletin	AA22-492			603-0002	10-Apr-07	Improve low frequency response (MOD 6)
<b>SM35</b>	<b>PA110/220 High Power Audio Amplifiers</b>			<b>1.08</b>			Last hard copy rev. 1.00 (Feb-04)
Installation & Operation		Issue 4.01	24-Sep-08				
Amendments							
Maintenance		Issue 4.01	19-Aug-08				
Amendments							
Bulletins							
<b>SM36</b>	<b>AA34 Series Universal Radio Interface</b>			<b>1.04</b>			Last hard copy rev. 3.10 (27-Nov-00)
Installation & Operation		Issue 4.02	21-May-10				
Amendments							
Maintenance		Issue 4.02	21-May-10				
Amendments							
Bulletins	Service Bulletin				603-0001	29-May-00	Replaced by 603-0002
	Service Bulletin				603-0002	16-Feb-01	MIC Level Trimpot Resistor Change, PCB Insulator Board (MOD 2)
	Service Bulletin				603-0003	24-Aug-09	Obsolete power amplifier (MOD 4)
	Service Bulletin				603A0005	21-May-10	Update labels.(MOD Various)
<b>SM39</b>	<b>AA37 Series Alerting System</b>			<b>1.02</b>			Last hard copy rev. 1.40 (9-Jun-97)
Installation & Operation		4.00	10-Nov-03				
Amendments							
Supplements		1.01			AA37-003\810-0	28-Aug-03	Dual Channel Alerting System
Maintenance		4.10	19-Jul-04				
Amendments					1	15-Nov-06	Changes to Section 6
Bulletins	Service Bulletin	AA37-212, AA37-001			603-0001	29-Jul-97	Incorrect Power Output Levels
<b>SM40</b>	<b>UT12-000 Universal Tone Encoder/Decoder</b>			<b>1.01</b>			Last hard copy rev. 1.00 (6-Aug-03)
Installation & Operation		4.00	09-Feb-05				
Amendments							
Maintenance		4.00	09-Feb-05				
Amendments							
Bulletins							
<b>SM42</b>	<b>AA36-002 (-ECF) Tie Line Adapter</b>			<b>1.02</b>			Last hard copy rev. n/a
Installation & Operation		4.00	05-Dec-03				
Amendments							
Maintenance		4.00	05-Dec-03				

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Amendments					1	09-Mar-07	Changes to Sections 5 and 6
Bulletins	Service Bulletin	AA36-ECF			603-0001	08-Feb-07	T103 & T104 Impedance Matching (MOD 1)
<b>SM43</b>	<b>AA39 Series Headset Adapters</b>			<b>1.04</b>			Last hard copy rev. 1.00 (25-Aug-00)
Installation & Operation		Issue 4.01	05-Jun-08				
Amendments							
Maintenance		Issue 4.11	06-Jun-08				
Amendments							
Bulletins	Service Bulletin	AA39-187/287			603-0001	16-Jun-04	OP-Amp Supply Voltage Increase(MOD 1)
<b>SM44</b>	<b>PA250 and PA700 Series <i>consists of:</i></b>			<b>1.06</b>			Last hard copy rev. 2.00 (17-Nov-00)
<b>SM44-1</b>	<b>PA250 Series High Power Voice Amplifier</b>			"			Last hard copy rev. 1.20 (17-Nov-00)
Installation & Operation		Issue 4.02	10-Mar-09				
Amendments							
Maintenance		Issue 4.01	13-Aug-08				
Amendments							
Bulletins	Information Bulletin	PA250			609-0001	07-Dec-99	Audio Power Amplifier
	Service Bulletin	PA250			603-0001	14-Apr-08	Isolated chassis ground (MOD A)
	Service Bulletin	PA250			603-0002	23-May-08	Isolated chassis ground (MOD 3)
	Service Bulletin	PA250			603-0003	09-Jun-08	Isolated chassis ground (MOD A)
<b>SM44-2</b>	<b>PA700 Series High Power Voice Amplifier</b>			"			Last hard copy rev. 1.20 (17-Nov-00)
Installation & Operation		Issue 4.02	10-Mar-09				
Amendments							
Maintenance	<i>700 Series S/N up to 1075</i>	Issue 4.01	13-Aug-08				
Amendments							
Bulletins	Information Bulletin	PA250			609-0001	07-Dec-99	Audio Power Amplifier
	Information Bulletin	PA700			609-0001	29-Mar-01	Audio Power Amplifier
Maintenance	<i>700 Series S/N 1076 and up</i>	Issue 4.01	13-Aug-08				
Amendments							
Bulletins	Information Bulletin	PA250			609-0001	07-Dec-99	Audio Power Amplifier
	Information Bulletin	PA700			609-0001	29-Mar-01	Audio Power Amplifier
	Service Bulletin	PA700			603-0001	04-Jun-08	Isolated chassis ground (MOD 3)
<b>SM46</b>	<b>N335 Dual User Audio Controllers</b>			<b>1.09</b>		<i>19-Apr-00</i>	Last hard copy rev. 1.00 (19-Apr-00)
Installation & Operation		Issue 4.21	14-Apr-09				
Amendments							
Supplements		1.00			N335-050\810-0	05-Dec-05	Audio Controller
		1.00			N335-056\810-0	05-Dec-05	Audio Controller
		1.03			N335-069\810-0	02-Sep-09	Audio Controller
		1.03			N335-070\810-0	03-Sep-09	Audio Controller
		1.00			N335-072\810-0	02-Apr-09	Audio Controller
		1.00			N335-073\810-0	02-Apr-09	Audio Controller
Maintenance		Issue 4.11	02-Jun-09				
Amendments							
Supplements		1.00			N335-050\825-0	05-Dec-05	Audio Controller
		1.00			N335-056\825-0	05-Dec-05	Audio Controller
		1.03			N335-069\825-0	02-Sep-09	Audio Controller

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		1.03			N335-070\825-0	03-Sep-09	Audio Controller
		1.00			N335-072\825-0	02-Apr-09	Audio Controller
		1.00			N335-073\825-0	02-Apr-09	Audio Controller
Bulletins	Service Bulletin	N335 Series			603-0001	22-Dec-05	Connector H/W Change (MOD A)
	Service Bulletin	N335 Series			603-0002	16-Mar-06	Annunciator Dimming Threshold Reduced (MOD D)
	Service Bulletin	N335-060/064			603-0003	28-Mar-07	Faceplate Quality (MOD A)
	Service Bulletin	N335 Series			603-0004	20-Jun-08	Faceplate luminance corrections
	Service Bulletin	N335-041/042			603-0005	13-Feb-09	Added countersink to emergency switch hole. (MOD A)
	Service Bulletin	I335-069-N335-070			603-0006	24-Mar-09	Connector J101 locking hardware changed to threaded studs. (MOD A)
	Service Bulletin	N335-070			603-0007	03-Sep-09	RX Mute function added. (MOD B)
	Service Bulletin	N335-069			603-0008	02-Sep-09	RX Mute function added. (MOD B)
<b>SM47 VR33 Series DC Power Converter</b>				<b>1.01</b>			
Installation & Operation		4.00	16-Nov-05				
Amendments							
Maintenance		4.00	16-Nov-05				
Amendments					1	06-Sep-06	Changes to Section 6
Bulletins							
<b>SM51 TS9x Series Lightweight Speaker Array</b>				<b>1.03</b>			Last hard copy rev. 1.00 (28-Mar-01)
Installation & Operation		4.00	12-Nov-03				
Amendments					1	10-Mar-09	Changes to Section 2
Maintenance		4.00	19-Jul-04				
Amendments							
Bulletins	Service Bulletin	TS92			603-0001	30-Apr-99	Speaker Chassis Corner Cracking
	Information Bulletin	TS9x			609-0001	05-Dec-08	Lightweight Speaker Array
<b>SM54 AA38-5xx, 6xx, 7xx Series Local ICS Loop</b>				<b>1.04</b>			Last hard copy rev. 1.10 (7-Apr-03)
Installation & Operation		Issue 4.11	13-Jan-10				
Amendments							
Supplements		1.10			AA38-506\810-0	22-Nov-05	Four Place Intercom
		1.00			AA38-602\810-0	27-Aug-08	Eight Place Intercom
Maintenance		Issue 4.10	09-Jun-08				
Amendments							
Supplements		1.10			AA38-506\825-0	22-Nov-05	Four Place Intercom
		1.00			AA38-602\825-0	27-Aug-08	Eight Place Intercom
Bulletins	Service Bulletin	AA38-503			603-0001	07-Jul-00	Autovox Improvements (MOD 1)
	Service Bulletin	AA38-50x, AA38-60x			603-0002	02-May-01	Phones Output Transformer Change (MOD 2)
	Service Bulletin	AA38-501/502/503 & AA38-703			603-0003	16-Jun-04	Op-amp Supply Voltage Increase (MOD 3 for 500 series)(MOD 1 for 700 series)
<b>SM56 AA9x Series Single Channel Audio Controller</b>				<b>1.10</b>			Last hard copy rev. 1.00 (23-Oct-02)
Installation & Operation		Issue 4.01	05-Sep-08				
Amendments							
Maintenance		Issue 4.01	05-Sep-08				
Amendments							

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Bulletins	Information Bulletin	AA90/AMS40			Installation	03-Mar-90	ICS Tie Line Operation
	Service Bulletin	AA9x/AMS4x			Issue 1	15-Apr-90	Series Audio Controller;Fuse
	Service Bulletin	AA9x/AMS4x			Issue 1	04-Oct-91	CrossCoupling of Radio Audio (MOD 4)
	Service Bulletin	AA90/AMS40 Series			603-0001	02-Dec-94	Audio Controller (MOD 8)
	Service Bulletin	AA9x/AMS4x			603-0001	10-Aug-95	Audio Controller MOD P)
	Service Bulletin	AA90/AMS40 Series			603-0002	10-Aug-95	Audio Controllers (MOD 8)
	Service Bulletin	AA95-857			603-0001	11-Jan-01	Defeat "ICS mute during Tx" feature (MOD A)
	Service Bulletin	AA96-xxx			603-0001	10-Apr-01	Transformer Replacment (MOD 13)
	Service Bulletin	AA97-427			603-0001	09-May-02	Minimum ICS Level Change (MOD A)
	Information Release	AA95-xxx			Issue 1	14-Aug-90	Part Number Amendment
	Information Release	AMS42/44			Issue 1	21-Mar-91	Configuration Selections
	Information Release	AA9x/AMS4x			Issue 1	05-Apr-91	Line Fault Analysis
	Information Release	AA90/AMS40 Series			Issue 1	17-Apr-91	Multiple Audio Controller Installations
	Information Release	AA90/AMS40			Issue 1	22-Apr-91	Schematic Drawings for Controllers
	Information Release	AA95-488			Issue 2	13-Dec-91	ICS Tie Options
	Service Bulletin	AA97-402			603-0001	22-Oct-02	Minimum ICS Level Change (MOD A)
	Service Bulletin	AA95-MVH2			603-0002	10-Jan-03	Correction to Alert 1 Operation (MOD B)
	Service Bulletin	AA97-402N,			603-0003	07-Jan-03	Minimum ICS Level Change (MOD A)
	Service Bulletin	AA97-MSP			603-0004	14-Jan-03	Change Direct Audio to Type "B" (MOD A)
	Service Bulletin	AA97-HGP1			603-0005	09-Jan-03	PA KEY Addition (MOD A)
	Service Bulletin	AA97A-OV10R			603-0006	05-Nov-03	Change RX AUDIO switch to locking type (MOD A)
	Service Bulletin	AA97-426			603-0007	22-Dec-04	Connect Direct Audio 2 LO to PILOT PHN LO (MOD A)
	Service Bulletin	AA95-894			603-0008	06-Jan-06	Change ICS Call Display to Green Type (MOD A)
	Service Bulletin	AA96-400			603-0009	24-May-07	ICS CALL Switch Actuation (MOD A)
	Service Bulletin	AA97-427NB			603-0010	02-Aug-07	Light socket alignment (MOD B)
	Service Bulletin	AA97-759			603-0011	09-Aug-07	Push button cap too thick (MOD A)
	Service Bulletin	AA95-4K2			603-0012	20-Apr-09	PA features incorrectly installed (MOD B)
	Service Bulletin	AA97-987			603-0013	27-May-08	Direct Audio fix (MOD A)
	Service Bulletin	AA97-GAR2			603-0014	19-Feb-09	Jumper Correction. (MOD A)
<b>SM58</b>	<b>AA36-100 Digital ICS Tie Line Adapter</b>			<b>1.01</b>			Last hard copy rev. 1.00 (27-Mar-03)
Installation & Operation		4.00	14-Nov-03				
Amendments					1	13-Mar-07	Changes to Section 2
Supplements		1.00			AA36-380\810-0	10-Apr-06	Digital ICS Tie Line Adapter
Maintenance		4.00	15-Jul-04				
Amendments					1	24-Mar-05	Changes to Title Section and Section 5
Supplements		1.01			AA36-380\825-0	11-Sep-06	Digital ICS Tie Line Adapter
Bulletins							
<b>SM59</b>	<b>AMS43 Single Audio Controller Manual</b>			<b>1.05</b>			Last hard copy rev. 1.00 (2-Jul-02)
Installation & Operation		Issue 4.01	23-Sep-08				
Amendments							
Maintenance		Issue 4.01	23-Sep-08				

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Amendments							
Bulletins	Service Bulletin	AMS43 Series			603-0001	10-Jul-03	Power Supply Modification (MOD 12)
	Service Bulletin	AMS43 family, AA95-xxx,AA96-xxx, AA97-xxx			603-0002	04-Oct-06	ICS Noise (MOD 4)
	Service Bulletin	AMS43 family, AA95-xxx,AA96-xxx, AA97-xxx			603-0003	24-Jan-07	ICS Bleedthrough (MOD 15)
	Installation Bulletin				Installation	03-Mar-90	All Audio Controllers, ICS Tie Line Operation
	Service Bulletin	AA9x/AMS4x			Issue 1	15-Apr-90	Audio Controllers; Fuse
	Service Bulletin	AMS4x/AA9x			Issue 1	04-Oct-91	Crosscoupling of Radio Audio (MOD 4)
	Service Bulletin	AA90, AMS40 Series			603-0001	02-Dec-94	Audio Controller (MOD 8)
	Service Bulletin	AA90, AMS40 Series			603-0002	10-Aug-95	Audio Controller (MOD 8)
	Service Bulletin	AA95-4K3			603-0001	17-Jun-02	Updated PAT MONITOR Feature (MOD A)
	Service Bulletin	AA9x/AMS4x			Information Release	05-Apr-91	Line Fault Analysis
	Installation Bulletin	AA90/AMS40 Series			Information Release	17-Apr-91	Multiple Audio Controller Installations
	Installation Bulletin	AA90/AMS40 Series			Information Release	22-Apr-91	Schematic Drawings for Controllers
<b>SM60 N300-001 and N300-002 Audio Controller</b>				<b>1.01</b>			
Installation & Operation		Issue 4.01	26-Sep-08				
Amendments							
Maintenance		Issue 4.01	19-Sep-08				
Amendments							
Bulletins	Service Bulletin	N300-xxx			N300\603-0001	31-Jul-02	Tantalum capacitor over-voltage failure (N300-001/003, MOD 3) N300-002/004, (MOD 2)
	Service Bulletin	N300-xxx			603-0002	29-Nov-07	Resistor on N300-11 not soldering properly during wave soldering process. (MOD 3 of MOD 4 as applicable)
<b>SM64 NTX403 Series Remote Mount UHF-FM Transceiver</b>				<b>1.02</b>			
Installation & Operation		4.00	19-Apr-05				
Amendments					1	07-Jan-08	Changes to Section 2
Supplements		1.00	27-Oct-06		NTX403-002\810-0		Remote Mount UHF FM Transceiver with Voice Privacy
Maintenance		4.00	01-May-06				
Amendments							
Supplements		1.01	13-Dec-06		NTX403-002\825-0		Remote Mount UHF FM Transceiver with Voice Privacy
Bulletins	Service Bulletin	NTX403-xxx			603-0001	12-May-09	Aux Receive Audio level too high. (MOD 2)
<b>SM65 N300-003 and N300-004 Audio Controller</b>				<b>1.01</b>			
Installation & Operation		Issue 4.01	26-Sep-08				
Maintenance		Issue 4.01	19-Sep-08				
Bulletins	Service Bulletin	N300-xxx			603-0001	31-Jul-02	Tantalum capacitor over-voltage failure
<b>SM69 AA12S Series Compact Audio Controller</b>				<b>1.03</b>			
Installation & Operation		Issue 4.01	07-Nov-08				
Amendments							
Supplements		1.00			AA12S-002\810-0	06-Apr-05	Compact Stereo Audio Controller
		1.00			AA12S-005\810-0	17-Feb-06	Compact Stereo Audio Controller
Maintenance		Issue 4.01	07-Nov-08				
Amendments							
Bulletins	Information Bulletin	AA12S-xxx			609-0001	16-Jun-04	Compact Stereo Audio Controller
<b>SM70 TS100/TS200 Series PA Speakers</b>				<b>1.02</b>			
Installation & Operation		4.00	22-Mar-05				
Amendments					1	30-Nov-06	Changes to Section 2

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Maintenance		4.00	22-Mar-05				
Amendments					1	30-Nov-06	Changes to Section 6
					2	14-Oct-09	Changes to Section 6
Bulletins	Information Bulletin	TS100A, TS100RA			609-0001	31-Jul-02	External Horn, 100 Watt
	Service Bulletin	TS100WR/TS200WR			603-0001	05-Aug-08	Pop rivet length changed (MOD 1)
<b>SM71 NTA01-001 Motorola Series Radio Adapter</b>				<b>1.01</b>			
Installation & Operation		4.10	06-Feb-06				
Amendments							
Maintenance		4.10	09-Jan-06				
Amendments					1	16-May-07	Changes to Section 6
Bulletins	Service Bulletin	NTA01-001			603-0001	21-Jul-05	Metalwork modified to fit Motorola XTL - 5000™ (MOD 3)
	Service Bulletin	NTA01-001			603-0002	29-Mar-07	Mounting of U101 on the NTA01-1 Subassembly (MOD 4)
<b>SM72 MB01-001 Matching Box</b>				<b>1.01</b>			
Installation & Operation		Issue 4.01	03-Apr-09				
Amendments							
Maintenance		Issue 4.01	03-Apr-09				
Amendments							
Bulletins	Information Bulletin	MB01-001			609-0001	12-Feb-09	Optional Feature to Support Integration with the CVC-151
<b>SM73 AA30-0xx Expansion Switches</b>				<b>1.01</b>			
Installation & Operation		4.00	18-Sep-06				
Amendments							
Maintenance		4.00	18-Sep-06				
Amendments							
Bulletins	Service Bulletin	AA30-014			603-0001	15-Apr-05	Adding Sidetone Trimpot (MOD 1)
	Service Bulletin	AA30-025			603-0002	25-Jan-08	Unit does not match original requirements (MOD A)
	Service Bulletin	AA30-013			603-0003	28-Nov-08	Rotary Switch Shaft too short (MOD 1)
<b>SM85 LD12-002 LED Dimmer</b>				<b>1.01</b>			
Installation & Operation		Issue 1.00	16-Mar-10				
Maintenance		Issue 1.00	16-Mar-10				
<b>SM95-766 Single Channel Audio Controller Panel</b>				<b>1.02</b>			
Installation & Operation		2.00	06-Dec-04				
Amendments							
Maintenance		2.00	28-Apr-05				
Amendments					1	14-May-08	Changes to Section 6
Bulletins	Service Bulletin	AA95-766			603-0001	10-Dec-03	Phones output failing (MOD 2)
<b>SM210 210 Voice Activated Switch</b>				<b>n/a</b>			
Installation & Operation		2.02	19-Mar-08				